PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

7146.9368 PCT		se Form PCT/ISA/220 stere applicable, item 5 below.		
International application No. PCT/US06/36574	International filing date (day/month/year) 18 September 2006 (18.09.2006)	(Earliest) Priority Date (dawinonth/year) 30 December 2005 (30.12.2005)		
Applicant SHARP LABORATORIES OF AMERICA	, INC>			
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of				
	according to Rule 38.2(h), by this Authority	r as it appears in Hox No. IV. The applicant th report, submit comments to this Authority.		
as suggested by the as selected by this A	uthority, because the applicant failed to sugg uthority, because this figure better characteri	gest a figure.		

Fouth LC 1/19/05/10 (state succes) (when 5000)

PATENT COOPERATION TREATY

From the		ENI COOPE	KAHON IKI	SALL	
INTERNATIONAL SEARCHING AUTHORITY To: KEVIN L. RUSSELL CHERNOFF, VILHAUER, MCCLUNG & STENZEL 1609 ODS TOWER		PCT			
601 SW SECOND AVENUE PORTLAND, OR 97204		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				(PCT Rule 43bis.1)	
			Date of mailing (day/month/year)	27 FEB 2008	
Applicant's or agent's file reference 7146,0368 PCT		FOR FURTHER ACTION See paragraph 2 below			
International application No		rnational filing date		Priority date (day/month/year)	
PCT/US96/36574 International Patent Classifi		eptember 2006 (18.		30 December 2005 (30.12,2005)	
IPC: H04N 7/12(2006 USPC: 375/246.01		national cassinea	on and Irc		
Applicant SHARP LABORATORIES	OF AMERICA, IN	(C)			
1. This opinion contains i	ndications relating !	o the following item	\$:		
Box No. I	30x No. I Basis of the opinion				
Box No. II	Priority				
Box No. III	Non-establishmer	it of opinion with re	gard to novelty, inve	ntive step and industrial applicability	
Box No. IV	Lack of unity of it	nvention			
Box No. V	Reasoned statement under Rule (5½:1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI	Certain documents cited				
Box No. VII	Certain defects in the international application				
Box No. VIII	Certain observation	ms on the internation	nal application		
2. FURTHER ACTIO	N				
International Prelimina	ry Examining Aut is one to be the IPI	hority ("IPEA") ex EA and the chosen	cept that dus does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an se international Bureau under Rule 66.1bis(b) ered.	
IPEA a written reply to	gether, where appro	priate, with amenda	ments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.	
For further options, see	Porm PCT/ISA/220),		· ·	
3. For further details, see a	notes to Form PCT/	I\$A/220.		: /	
Name and mailing address of Mail Stop PCT, Attn		Date of complet	ion of this opinion	Authorized officer	
Commissioner for P: P O. Bux 1450		18 February 20	98 (18.02.2008)	Whon T. Diep legail	
Alexandria, Virginia	22313-1450		Telephone No. 703 305-2600		

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/36574

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

applicability; citations and explanatio	ons supporting such statement	
1. Statement		
Novelty (N)	Claims 2, 4, 7-27	YES
	Claims 1, 3 and 5-6	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-27	NO
Industrial applicability (IA)	Claims 1-27	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1, 3 and 5-5 lack novelty under PCT Artole 33(2) as being anticipated by Milahn (U.S. 6)(75,768). Middina shows a method for transmitting video content comprising: encoding a plumity of frames of the video by a sender at actia rate (figure 1, e., 26 and 30); a transmitting the encoded video across a network interconnection to receiver (figure 1, e., 20); wherein the encoding includes allocating bits for a plurality of frames of the video based upon a delay constraint (bottleneck) for the plurality of frames and at least one of the type of frames of the video and are distortion model (column 8, lines 45-60); based upon the rotte distortion model (column 8, lines 45-60); based upon the rotte distortion model (column 8, lines 45-60); based upon the rotte distortion model (bottleneck) as greatly filed in claims 1, 3 and 5-6.

Claims 2, 4, 7-27 lack an inventive step under PCT Article 33(3) as being obvious over Mistira in view of Wang et al (US 6,167,084). Wang et al teaches the allocation is based upon the types of frames of the video or based upon 1, P₁ and B frames or based upon fiture fitmes or founds within a group of frame (figure 7 and downn 9, fines 2-0, for a varenge desortion or means square error or transcording (figure 6, el. 640) or relation is finear or coponemial or minimizing end-to-end delay signal to noise ratio as specified in claims 2, 4, and 7-6.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions ender that Treaty In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT applicant's Guide, a publication of WIPO

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant lies, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized ocarcining Authority, the opportunity ocarbation to call and a contract of the international application (claims, description and drawings) may be amended during the that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another except where, e.g. the applicant wants me latter to the profusions to the purposes of provisional protection of this attender reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is switable to some States only (see Pet Applicant's Guide, Volume I/A., Annexes H1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the adention of the applicant is given to the pure the attention to the chains under Afficte 19 are not allowed where the international Searching Authorny has declared, under Article 17(2), that no international search report would be established (see PCT Applican 2 outde, Volume VA, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the During nie miemational priese, nie cianis i may also ie anicione i or misier angione) priese Article 24 octors rie International Preliminary Examining Authority. The description and drawings may only be amended under Article 24 defect the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having When? been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the reclinical proparations for international publication (Rule 46.1)

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2)

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one How? or more of the claums as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or argendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 12, 34, 35, 37 to 48 replaced by amended claims berning the same numbers, claims 90, 33 and 36 unchanged; new claims 90 to 31 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11].
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims).
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added "or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added, all other claims unchanged."
- 4 [Where varrous kinds of amendments are made]. "Claims 1-10 uncharged; claims 11 to 13, 18 and 19 cancelled, claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new chaims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to bepublished.

It must b. brief, not exceeding 500 words if in English or if translated into English.

It should not be conflisted with and does not replace the letter indicating the differences between the claims as filled
and as amended. It must be filled on a separate sheet and must be identified as such by a heading, preferably by
using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, entained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amondments and any accompanying statement, under Article 19, a demand for international preliminary examination has always been submitted, the applicant must preferably at the time of filing the amendments (and otherwise) with the International Bureau, also file with the International Preliminary of the property of the Preliminary of Such amondments (and of any statement) and, where required, a secretary of Such amondments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/PEAA/D).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act at an international Becarching Authority and where it has notified the International Becarching Authority and where it has notified the International Becarching Authority and where it has notified the International Preliminary Authority and Search 18 demand is made, the considered to be a written opinion of the International Preliminary Examining Authority a cpt) to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the class from the class of mailing of Form PCT/ISBA/230 or before the expiration of 22 months from the priority data, whiteaver expires later (Nut el 356: 1(c)).

Consequence with regard to translation of the international application for entry late the national phase

The applicant's attention is drawn to the fact that, upon entry into the nanonal phase, a translation of the claims as armended under Article 19 may have to be furnished to the designated elected Offices, instead of, or in addition to, the translation of the claims as filled.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide.